Telemedicine Standards

NIST
December 13th 2006

American Telemedicine Association

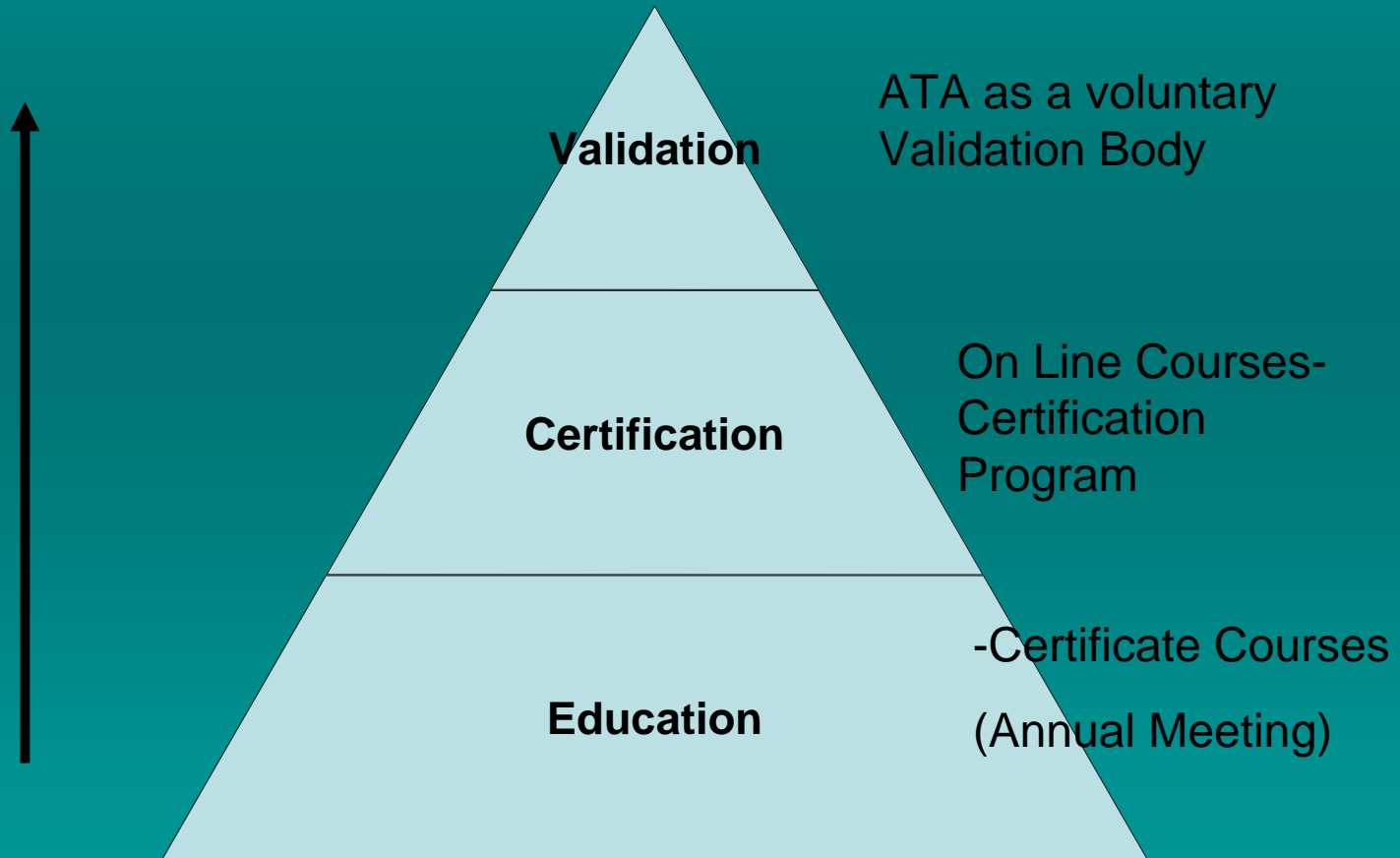# Objective: A Clear Road Map for the Development of Telemedicine Standards

- Patient Safety
- Quality of Care
- Balance
  - Measurable
  - Cost Effective
  - Evidence based
  - Realistic

ATA's Takes Leadership Role in Developing Standards

- Significant Investment of Resources to development of Standards
  - Diabetic Retinopathy
  - Partnerships
    - Continua Relationship
    - NIST/ONC Relationship
  - Standards Committee & Staffing Commitment
- Strategic Direction of ATA
  - Certification and Accreditation

ATA Standards Roadmap

Validation — ATA as a voluntary Validation Body

Certification — On Line Courses-Certification Program

Education — -Certificate Courses (Annual Meeting)

Significant Standards Efforts to Date

- 1st Standards/Report focused on Diabetic Retinopathy 2005 (NIST-ATA)
- Definitions and Nomenclature (Near completion)
- Generic Use Case Development (On going). Validation of Use cases in collaboration with Continua
- Development of certificate courses in targeted specialty areas (Home Health)
- Drafting an overarching Telemedicine Standards Paper (Ongoing)
  - Modeled Canadian Telehealth Position Paper
- Formalize framework/Process for standards development (By March 2007)
- Teledermatology Standards Working Group Meeting (14 Dec 2006)

Diabetic Retinopathy Roadmap

- NIST-ATA-Ocular SIG Collaboration: Three workshops with clinical, industry, administrative, operational personnel

    -Conference calls

    -Emails

    -Web Review

Telehealth Practice Recommendations for Diabetic Retinopathy

Prepared by the American Telemedicine Association, Ocular Telehealth Special Interest Group, and the National Institute of Standards and Technology Working Group[*]

25 May 2004

Presented in part at the American Telemedicine Association Annual Meeting, Tampa, Florida, May 2004

ATA
HOME

Document Review Period:
November 1 - December 15, 2003

American Telemedicine Association Position Statement:
Standards and Guidelines in Telehealth for Diabetic Retinopathy

The ATA Ocular Telehealth SIG Chairman and Section Writing Teams invite all ATA members to provide their specific comments to each of the three main sections on the American Telemedicine Association Position Statement: Standards and Guidelines in Telehealth for Diabetic Retinopathy. The three main sections are (1) Technical, (2) Clinical and (3) Business Rules. After the comment period closes on December 15, 2003, the Section Writing Team Leaders will analyze the comments, make appropriate changes to the documents, and then submit the final draft sections for consolidation by the Editorial Board in January 2004.

All Comments must be received on or before noon EDT on December 15, 2003.

Instructions: Please review the documents of your interest in **HTML** format (select the HTML link below) or download the read-only **PDF** file format (requires Acrobat Reader). You may review available comments by selecting the **"Comments"** hyperlink and you may add your own new comments by selecting the **"Submit New Comments"** hyperlink below (please add comments of no more than 1000 words). You may also add or expand on a previous comment from within the Comment Log by selecting the **"Respond to Comment"** link as well.

Please forward general **comments** to the email address provided below if they involve suggestions regarding the document editing process, if you have supplemental reference documents you would like to submit to the editorial board for consideration as an email attachment and/or your comments are more than 1000 words in length. Please use the second **HelpDesk** email address provided to address any Technical Problems you may have with this web page.

Thank you for your participation and support.

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Section 1: Technical Standards
HTML   PDF   Comments Log   Submit New Comments

Section 2: Clinical Guidelines
HTML   PDF   Comments Log   Submit New Comments

Section 3: Business Rules
HTML   PDF   Comments Log   Submit New Comments

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General Comments to the Editorial Board Chairpersons: comments@americantelemed.org
For Technical Problems with this page forward email: helpdesk@americantelemed.org

Document Review Period: November 1 - December 15, 2003

American Telemedicine Association
Home Telehealth Special Interest Group
Online Educational Course

Home Telehealth: The Basics

This **new ATA online certificate course** focuses on home telehealth applications and addresses clinical, administrative, financial and legislative issues related to implementing and sustaining successful home telehealth programs. This course is at a beginning level to help novice learners understand these concepts, however, it also can serve as an excellent review for intermediate and advanced learners in meeting educational or competency requirements.

Home Telehealth SIG Planning Committee
- Rita Kobb, MS, MN, GNP-BC
- Susan Dimmick, PhD
- Rhonda Chetney, MS, RN
- Marie Mann, MS, RN
- Debbie Butns, RN
- Cindy Campbell, RN
- Susan Slater, BSN, RN
- Lorraine B. Pelligrino, RN, MHA

American Telemedicine Association Home Telehealth Special Interest Group Online Educational Course

At the Conclusion of this educational activity, the learner will be able to:

- Define what home telehealth is and how it is successfully applied in the healthcare environment.
- Identify key clinical, administrative and technical design and support elements for implementing a successful home telehealth.
- Identify appropriate methods for collecting data to provide an evidence base that demonstrates the value of home telehealth.
- Identify critical areas such as change management, organizational behavior, and buy-in from stakeholders, marketing, and recruitment that greatly impact the success or failure of home telehealth programs.
- Discuss the key political issues affecting the full utilization of home telehealth in the healthcare arena.

Continuing Education and Continuing Medical Education Credits

Continuing education and continuing medical education credits and a certificate of completion are offered by the University of South Florida College of Medicine upon the successful completion of the following course requirements:

- Completion of each lesson and self-review questions.
- Completion of the final examination with 75% or greater score.
- Completion of the program evaluation.

Definition and Nomenclature

- Standards Committee
  - Lead by Sue Slater
- Definitions
  - Standards
  - Credentialing
  - Certification
  - Accreditation

Standards Definition

Standard: A statement established by consensus or authority that provides a benchmark for measuring quality and that is aimed at achieving optimal results (NIFTE Research Consortium, 2003)

Guideline: A statement of policy or procedure by which to determine a course of action or give guidance for setting standards (adapted from Ioane & Wootton 2002)

Use Cases

Development of a taxonomy/classification of telemedicine that is decomposed to the level of granularity necessary to identify (1) commonality and (2) variability/uniqueness of particular telemedicine applications

Lays out:

- care settings/points of care
- actors/roles
- workflow (and information flow)
- data, information, and knowledge requirements
- interfaces/intersections
- presence of existing standards and gaps in standards

Clinical, business, and workflow needs drive technical requirements

Continua
HEALTH ALLIANCE

- HOME

- ABOUT US

- USE CASES

- NEWS & EVENTS

- JOIN

- CONTACT US

- MEMBERS ONLY

ALLIANCE PARTNERS

Imagine products so intelligent they help manage one's health at home.
Imagine an alliance of the finest companies joining forces to improve the
quality of people's lives. Imagine highly integrated systems that seamlessly
work together. We are the Continua Health Alliance.

THE TIME FOR TECHNOLOGY-BASED HEALTH CARE SOLUTIONS IS NOW.

Health begins at home, but time pressure or a lack of motivation may keep
generally healthy individuals from maintaining exercise and weight
management programs. Individuals with a chronic disease, such as diabetes
or heart disease, may experience trouble with treatment plans, and the
elderly, who may be less able to physically or mentally maintain their own
health, require greater access to in-home care and supervision.
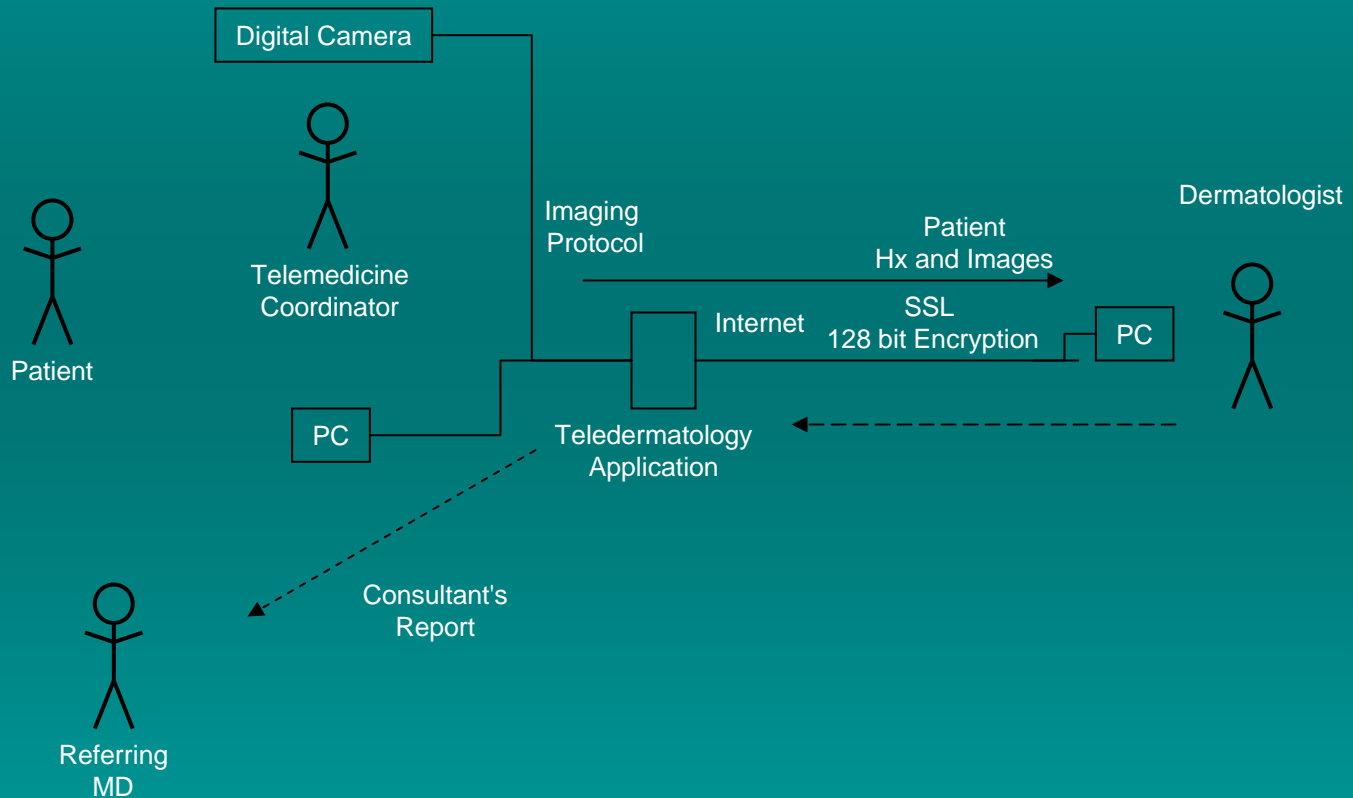
CONTINUA HEALTH ALLIANCE

*Fostering independence through
establishing a system of
interoperable personal telehealth
solutions that empower people
and organizations to better
manage health and wellness.*

LATEST NEWS

The Wall Street Journal
Corporate Alliance Aims to
Ease Use of Technology in
Healthcare, June 2006

Use Case Graphical representation

SAF Teledermatology consultation

ATA Telemedicine Standards

Canadian Telehealth Guideline

National Initiative
for Telehealth
**Framework of
Guidelines**
September 2003

Technical Standards & Practice Guidelines Development Oversight

ATA BoD

ATA Standards and Guidelines Committee
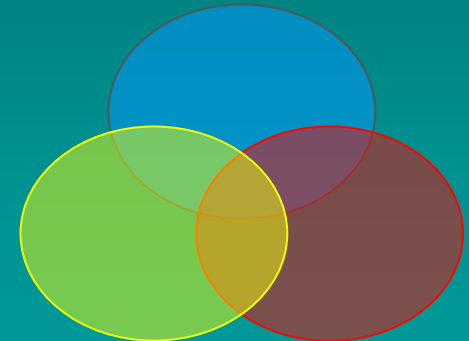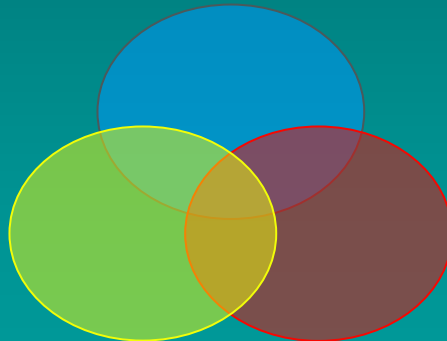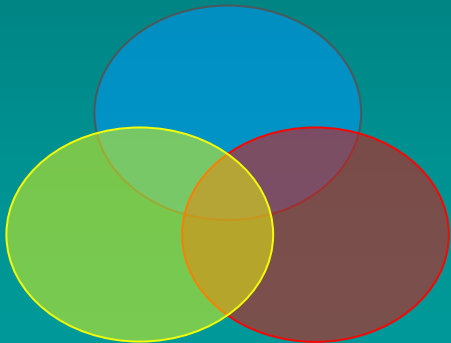
NIST

Industry Council

Tech & Human Factors SIG's

Policy Committee & Nursing SIG

Tele Dermatology SIG

Home Tele Health SIG

Tele Mental Health SIG

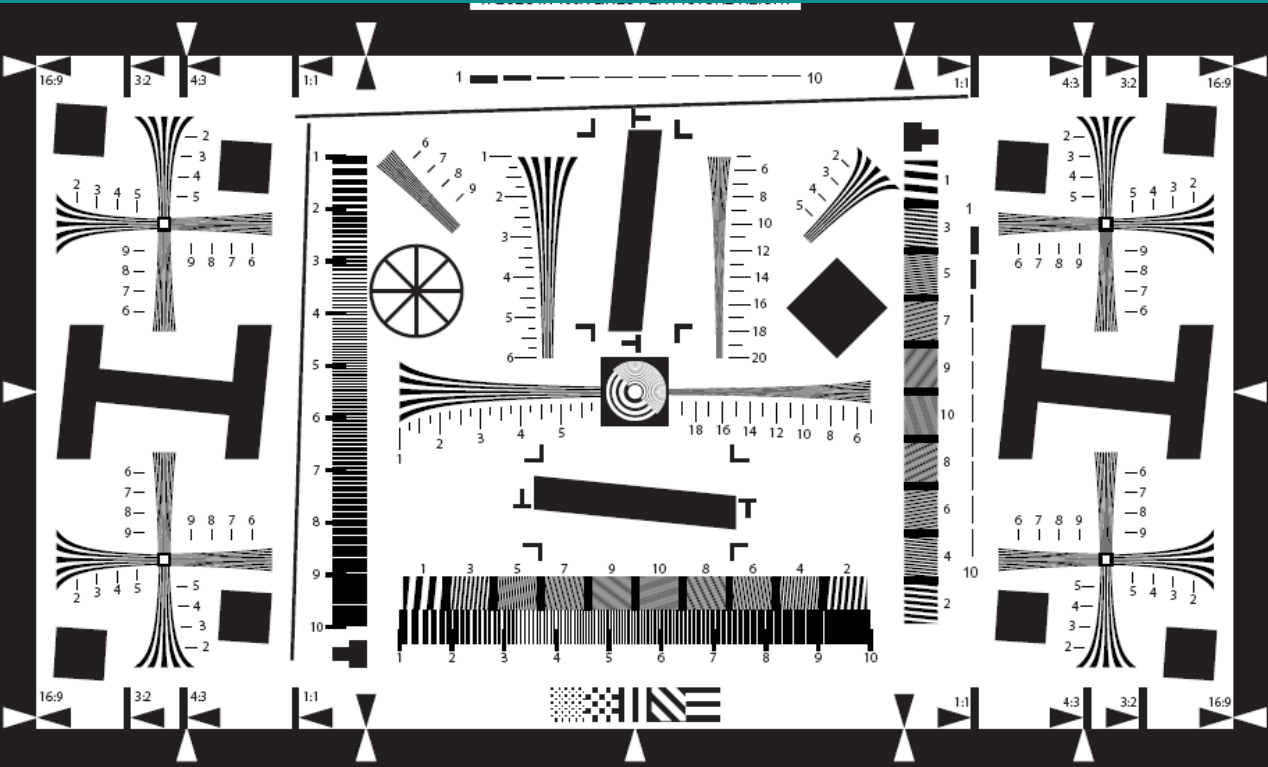# Standards Development Organization Advancement Act of 2003

A *standards development organization* is an organization "that plans, develops, establishes, or coordinates voluntary consensus standards" in a way that, in accordance with OMB Circular Number A-119, as revised February 10, 1998, is open (with notice to all affected parties), includes:

- A balance of interests (so that no single group of interested persons dominates the process)
- Affords participation in standards development or modification
- Allows easy access to essential information regarding proposed and final standards,
- Achieves consensus (not necessarily unanimity), and assures due process, including appeals procedures.

Teledermatology Standards

- Collaboration with AAD-ATA-NIST
- Scope
  - General Dermatology
  - Store and Forward v. Live Interactive
- Technology Standards Workgroup
  - December 14th

Teledermatology Standards (Technical)
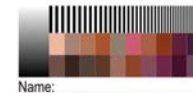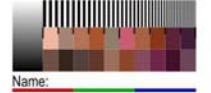
Teledermatology Standards Workgroup

Attendees (In person):

- Nina Antoniotti
- Richard Bakalar
- Jordana Bernard
- Paul Boynton
- Anne Burdick
- Lisa Carnahan
- Richard Evans
- Tom Hirota
- Elizabeth Krupinski
- Jon Linkous
- Hon Pak
- Lynne Rosenthal

Attendees (Audio or Video):

- John Bocachica
- Joe Kvedar
- Doug McClure,
- Dennis Oh
- Scott Simmons
- Sandra Peters
- Lucius Earles
- Marc Goldyne
- Karen McKoy

Create a framework to develop standards in specialty areas of Telemedicine
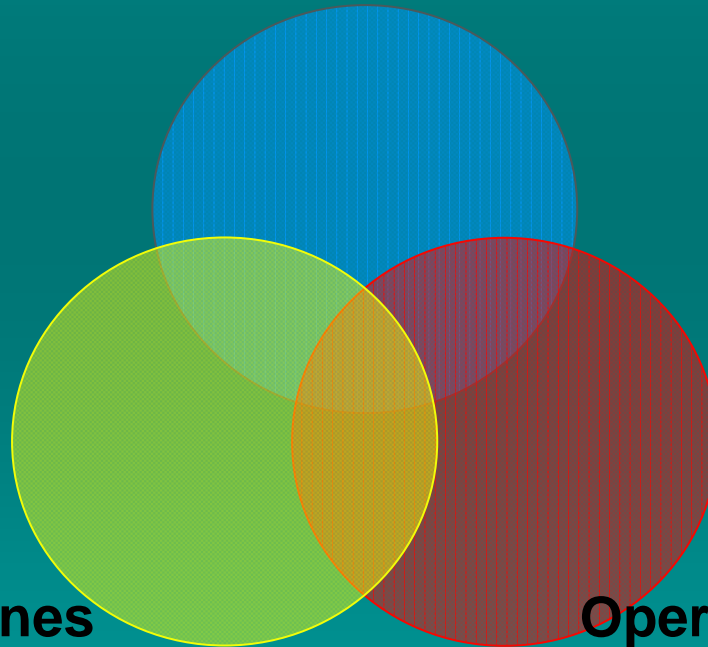
Teledermatology

Home Telehealth

Telemental Health

ATA Proposed Telemedicine Standards Framework

Technical Standards

Clinical Guidelines

Operational Guidelines

Proposed Process for Development

Step 1: Guideline Scope and Definition

Step 2: Stakeholder Forums/Workshop

Step 3: Forum Section Author Teams

Step 4: On-line Comment Period

Step 5: Guideline document integration by Editor

Step 6: Final Document published for open comments

Step 7: Approval by ATA and endorsement by external societies

Step 8: Development of education and implementation Strategy related to best practices and guidelines

Step 9: Development of certification program

Standards Development Guidelines

- **Disclosure:** A disclosure form will be provided to each member of the workgroups that are involved in standards and guidelines. Participants will be asked to fully disclose any potential conflicts. This information will be shared with other members of the work group and be made public.

- **Fair representation** of members from clinical, industry, government and other potentially affected parties.

- **A notice** should be circulated publicly that ATA is forming these work groups with information about their purpose, process, timelines and proposed products. Anyone from the affected parties, regardless of ATA membership status, will be able to attend a future meeting of the work group (but they would not necessarily have a voice at the table or a vote).

- **Transparent Process**: The proposed and final documents will be made available on the ATA website for open comment. Once adopted, a simple process will be developed to allow for appeals of the final rule.

Contributions

- Standards Committee
- Ocular SIG (Diabetic Retinopathy Workgroup)
- NIST
- AAD
- ATA Staff

A Federal Perspective

1. Entertain establishing NIST and ATA at the epicenter of the development of standards, guidelines and quality assurance (SGQA) mechanisms for telemedicine as related to the federal government.

    - A single set of coherent requirements and quality assurance mechanisms for telemedicine

    - Context of Telemedicine Standards within a larger HIT Standard Effort **(ONC)**

    - Development of framework and process for standards development

2. Identify and Recruit federal agency support including participation in the SGQA process and incorporation of the end products in federal programs and requirements. **(Stakeholders)**

    - Achieving buy-in and support from federal agencies may require reshaping some part of the process we have established. (DoD/ VA/ DHHS)

    - Develop consensus on stakeholder roles and responsibilities

3. Obtain an understanding of barriers, unique perspectives, and priorities of federal programs as well as already established any federal SGQA efforts related to telemedicine.

Comments

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301-619-7923

Telemedicine and Advanced Technology
  Research Center